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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/527,410	03/16/2000	Bing Lin Yang	YKI0034US	1559
23413	7590	08/05/2009	EXAMINER	
CANTOR COLBURN, LLP			BAISA, JOSELITO SASIS	
20 Church Street			ART UNIT	PAPER NUMBER
22nd Floor			2832	
Hartford, CT 06103				
NOTIFICATION DATE	DELIVERY MODE			
08/05/2009	ELECTRONIC			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptopatentmail@cantorcolburn.com

Office Action Summary	Application No.	Applicant(s)	
	09/527,410	YANG, BING LIN	
	Examiner	Art Unit	
	JOSELITO BAISA	2832	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 01 April 2009.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-20 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 16 March 0200 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ .	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-5, 8, 9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones [2457102] in view of Kozlowski [3906273].

Regarding claims 1, 2, 5 and 9, Jones discloses a pair of lead terminals (3, 4), each having a lead portion and a broadened tip forming a discharge electrode (1, 2), at least one broadened tip having a projected or patterned surface [Col. 5, Lines 1-5]; sealing spacers (6, 7) fixed on the lead portion of lead terminal (3, 4); a one piece cylindrical housing 5; the discharge electrodes (1, 2) held in the housing 5 facing one another with a predetermined distance therebetween; and wherein the lead terminals (3, 4) with sealing spacers thereon are adjustable within the cylindrical housing 5 before being fixed air tightly thereto such that the distance between the discharge electrodes (1, 2) may be varied and set as desired [Col. 3, Lines 19-45, Figure 1].

Jones discloses the instant claimed invention discussed above except for having the sealing spacer fitted and fixed to an inside wall of said housing; the lead terminals and sealing spacers fixed thereon configured to be inserted from open ends on both sides of said housing into an interior of said housing.

Nobuya discloses sealing spacers 13 with central fitting through -hole (where leads are inserted, as required by claim 9) fitted and fixed to an inside wall of housing 14 and are inserted from open ends on both sides of housing 14; the lead terminals 11 and sealing spacers 13 fixed thereon are configured to be inserted from open ends on both sides of housing 14 [Abstract].

It would have been obvious to one having ordinary skill in the art at the time of the invention to use lead terminals and sealing spacers as taught by Nobuya to the device of Jones.

The motivation would have been to produce a surge absorber that has an extremely excellent sealing characteristic even when gas of any property is used as filler [Abstract].

In claim 2, the glass bead is welded to establish a seal between the tube 14 [Abstract].

Regarding claims 3, 4, 8, 12, Nobuya discloses repeated backfilling and flushing with dry air and argon which would inherently results in the cleanliness claimed [Paragraphs 8, 9 and 16].

2. Claims 6, 7, 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Nobuya as applied to claim 1 above, and further in view of Harada et al. [4317155].

Jones in view Nobuya discloses the instant claimed invention discussed above except for the lead wires being Dumet.

Harada discloses using Dumet as lead wire [Col. 6, Lines 18-21].

It would have been obvious to one having ordinary skill in the art at the time of the invention to use Dumet wire as taught by Harada to the structure of Jones in view of Nobuya.

The motivation would have been for using as a lead wire that penetrates glass [Col. 6, Lines 17-20].

3. Claims 13-15 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Nobuya as applied to claim 1 above, and further in view of Zuk [4175277].

Regarding claims 13-14, 17 and 18, Jones in view Nobuya discloses the instant claimed invention discussed above except for the projected surface comprises a protrusion having a substantially conical shape extending from the broadened tip in a direction of a longitudinal axis of the lead portion; the protruding portion delimiting a conical cavity in the broadened tip.

Zuk discloses such a pattern in Figure 2.

It would have been obvious to one having ordinary skill in the art at the time of the invention to use a protrusion in a conical shape with a delimiting conical cavity in the broadened tip as taught by Zuk to the structure of Jones in view of Nobuya.

The motivation would have been for the purpose of controlling the gap width [Col. 2, Lines 40-67, Figure 2].

Regarding claims 15 and 19, Jones in view Nobuya discloses the instant claimed invention discussed above except for the projected surface comprise a semi-spherical protrusion extending from the broadened tip.

Zuk discloses the projected surface comprise a semi-spherical protrusion extending from the broadened tip [see Figure 2].

It would have been obvious to one having ordinary skill in the art at the time of the invention to use a semi-spherical protrusion on the projected surface of the electrode as taught by Zuk in view of Jones and Nobuya.

The motivation would have been to better direct voltage surge from one electrode to the other [Col. 2, Lines 41-67].

4. Claims 16 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Nobuya as applied to claim 1 above, and further in view of Lange et al. [4266260].

Jones in view Nobuya discloses the instant claimed invention discussed above except for the patterned surface comprises grooves forming grid pattern.

Lange discloses patterned surface comprises grooves forming grid pattern [see Figures 1, 2 and 3].

It would have been obvious to one having ordinary skill in the art at the time of the invention to use patterned surfaces as taught by Lange to the structure of Jones in view of Nobuya.

The motivation would have been for the purpose of anchoring or good bonding of electrode activating substance [Col. 3, Lines 33-38].

Response to Argument

Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Nobuya discloses sealing spacers 13 with central fitting through -hole (where leads are inserted, as required by claim 9) fitted and fixed to an inside wall of housing 14 and are inserted

from open ends on both sides of housing 14; the lead terminals 11 and sealing spacers 13 fixed thereon are configured to be inserted from open ends on both sides of housing 14.

Applicant also argues that the reference Jones does not disclose a lead portion with broadened tip having projected surface. The Examiner disagrees.

Jones discloses in Col. 5, Lines 1-5, that lead portions may consist of opposed surfaces of different curvature.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSELITO BAISA whose telephone number is (571)272-7132. The examiner can normally be reached on M-F 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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